

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.

 09/661,899
 09/14/00
 MU
 X
 042390-P9557

MM91/1106

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES CA 90025 ART UNIT PAPER NUMBER

2814

DATE MAILED:

11/06/01

EXAMINER

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

MM91/1109

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES CA 90025

APPLICATION NO.	FI	LING DATE	TOTAL CLA	IMS	EX	CAMINER A	ND GROUP	ART UNIT	-	DATE MAILED
09/661,	899 09	9/14/00	024	CHA	AMBLISS	i, A			2814	11/06/01 (
First Named MU, Applicant		•	35	USC 1	154(b)	term	ext.	==	0 Days	•

TITLE OF PROCESS FOR FORMING A DIRECT BUILD-UP LAYER ON AN ENCAPSULATED DIE PAC KAGE UTILIZING INTERMEDIATE STRUCTURES

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 042390-P95	557 [*] 438-110.	000 04	46 UTILI	TY NO	\$1280.00	02/06/02

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>.

HOW TO RESPOND TO THIS NOTICE:

- Review the SMALL ENTITY status shown above.
 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

	Application No.	Applicant(s)					
•	09/661,899	MU ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Alonzo Chambliss	2814					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to and MPEP 1308.	plication. If not include will be mailed in due	ed course. THIS				
 This communication is responsive to election and amendment A filed both filed on 9/7/01. The allowed claim(s) is/are 10-33. The drawings filed on are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All Some* c) None of the: Certified copies of the priority documents have been received. 							
2. Certified copies of the priority documents have	been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:							
•	5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
(a) The translation of the foreign language provisional application has been received.							
6. Acknowledgment is made of a claim for domestic priority ur	• •						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No. 6. (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No 							
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper	84(c)) should be written on the drawir with a transmittal letter addressed to	ngs in the top margin (n the Official Draftsperso	ot the back) on.				
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)							
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 5. 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Summ 7. 6⊠ Examiner's Ame	al Patent Application (F ary (PTO-413), Paper ndment/Comment ement of Reasons for A	No				

Application/Control Number: 09/661,899 Page 2

Art Unit: 2814

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 9/7/01 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered. Furthermore, applicant can not cite applications as references on a PTO 1449 that are pending at USPTO since the inventions have not been patented or describe in a printed publications.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 150'. Correction is required.

EXAMINER'S AMENDMENT

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:

IN CLAIMS:

Application/Control Number: 09/661,899

Art Unit: 2814

Cancel claims 1-9 since applicant elected without traverse claims 10-33 for prosecution in Paper No. 8 on 9/7/01.

IN SPECIFICATION:

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested: "PROCESS FOR FORMING A DIRECT BUILD-UP LAYER ON AN ENCAPSULATED DIE PACKAGE UTILIZING INTERMEDIATE STRUCTURES ".

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach the combination of a first encapsulated die assembly including a die with an active surface and having a first packaging material adjacent to the side of the die. The first packaging material comprises a first microelectronic package core and a first encapsulation material, wherein the encapsulation material has a portion that is on the back surface of the first die assembly. A second die assembly including a second die with an active surface and a second packaging material adjacent to the side of the second die. Attaching the first die assembly back surface to the back surface of the second die assembly.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for this Group is (703) 308-7722 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

AC/October 31, 2001